

# **Ethical Dilemmas in Using LLMs for Automated Exam Proctoring in Türkiye**

## **1) Identifying the Event or Business Case**

During the Covid-19 pandemic, many universities in Turkey started to use artificial intelligence supported proctoring systems to prevent cheating and ensure academic honesty and trust. Especially, Turkish startup Witwiser has played a key role to improve online exam security (Eğitimde Teknoloji, 2020). These technological systems has some features such as facial recognition, behavioral analysis or screen activity monitoring to detect cheat attempts during the exam. As can be seen, the system is working well but it has some ethical issues because within the online exam AI or LLM integrated system processes students sensitive data which violates the students privacy. After that government is concerned this ethical issue and released a law called KVKK that protects persons sensitive data by masking or encryption (Türkiye Cumhuriyeti Resmi Mevzuat, 2016).

## **2) Explanation for the Choice**

I have chosed this issue because in Covid-19 times, I have also experienced remote exams which uses proctoring tools to ensure academic integrity and prevent cheat in exams. But in that time, I was not aware of my personal data is processing by LLM or AI supported tools. And I see this event as a harmless and innocent process. But now, I know that they process our sensitive informations so that It can lead to very bad consequences.

## **3) Stakeholders and Their Perspectives**

- ✓ Students: Students respect exam fairness, nevertheless many feel violated by excessive surveillance and are concerned about false allegations or data breaches.
- ✓ Universities: Administrators prioritize academic integrity and honesty and see these tools as a way to prevent and detect cheating.
- ✓ Proctoring Software Providers: They are motivated by innovation and market opportunities. But the system is lack of transparency and accuracy.
- ✓ Parents: They concern about their children's privacy and psychological impact of the system over students.
- ✓ Regulatory Bodies: They are responsible for guaranteeing data protection and ethical compliance but they are unable to establish clear boundaries for such technology in education.

#### 4) Proposed Solutions and Their Effectiveness

##### a) Encryption

By sending masked and encrypted data the privacy can be sustainable for most of the data.

##### b) Data Privacy Policies

Proctoring systems should only collect and store data necessary for monitoring and delete it immediately after exams.

##### c) Human Oversight

Automated flags should always be reviewed by a human to ensure fairness and prevent false accusations. This is effective but increases operational costs.

#### 5) Opinion on Government Regulation

The state should definitely supervise the exam management tools automated by AI and LLM according to a rule and check them periodically. In this way, sensitive information will be protected. It will be a system that is also ethically appropriate. However, with this development, AI and LLM will have certain limits and will not be able to develop at the same time. Also this event will increase the compliance costs for educational institutions.

#### References

1. Eğitimde Teknoloji. (2020). Çevrimiçi Güvenli Sınav için Yapay Zeka Çözümü. *Eğitim Tercihi*. Retrieved from <https://www.egitimtercihi.com/egitimteknolojileri/21281-cevrimici-guevenli-s-nav-icin-yapay-zeka-coezuemue.html>
2. Laudon, K. C., & Laudon, J. P. (2020). *Management Information Systems: Managing the Digital Firm*.
3. Türkiye Cumhuriyeti Resmi Mevzuat. (2016). Kişisel Verilerin Korunması Kanunu (Kanun No: 6698). Retrieved from <https://www.mevzuat.gov.tr/mevzuat?MevzuatNo=6698&MevzuatTur=1&MevzuatTertip=5>